



Weatherford®

Fishing Services

A-1 M23 and M24 Casing Cutters

Weatherford's hydraulically actuated A-1 M23 and M24 casing cutters cleanly cut a wide range of casing sizes and weights without special surface equipment, making them some of the most versatile and easy-to-operate tools of their kind. Cutting pipe of any size within range of the tool in use requires only a change of knife.

The rotary table, top drive, power swivel, or downhole motor can provide rotating power for these extremely rugged and efficient casing cutting tools. A-1 cutters can be run directly on the drillpipe or with drill collars; however, Weatherford recommends the use of drill collars in cutting operations and applications for which additional weight is needed, such as cutting from a floating vessel.

Weatherford's A-1 casing cutters are products of the company's MillSmartSM technology—an engineered approach to milling that encompasses a wide range of proven products, services, and technical resources, developed and refined by the world's largest and most experienced provider of milling and fishing services.

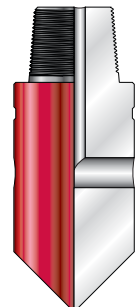
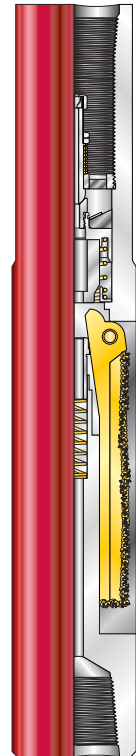
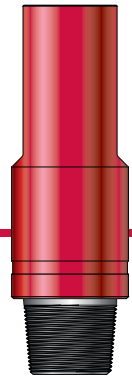
Applications

- Cleanly cut a wide range of casing sizes and weights without special surface equipment

Features, Advantages and Benefits

- A-1 casing cutters require no special surface equipment. Simplicity and a minimum of working parts make these cutters efficient, versatile, and rugged.
- Hydraulic actuation makes these cutters efficient and easy to use.
- The exclusive indicator bushing triggers a distinct pressure drop, providing one of many possible indicators that the cut is complete.
- All principal parts are manufactured from special-quality, heat-treated alloy steel, which extends the tool life and keeps the tool intact under the toughest operating conditions. Inner parts are made from stainless steel for high corrosion resistance. Knives are dressed using Weatherford's *MillSmart* technology and the finest-quality tungsten carbide available, resulting in an outstanding reputation for milling performance.

MillSmart technology—making milling Simply ProductiveSM





A-1 M23 and M24 Casing Cutters

Specifications

Casing Size (in./mm)	Tool Body OD (in./mm)	Maximum Range		Assembly Number	
		Single String, Cutting from Center (in./mm)	Multiple Strings Cemented but Not Centralized, Cutting from Maximum Off-Center (in./mm)	M23	M24
4-1/2 114.30	3-5/8 92.08	9-5/8 244.48	7 177.80	TT13350	—
5-1/2 139.70	4-1/4 107.95	13-3/8 339.73	10-3/4 273.05	TT10112	—
7 177.80	5-1/2 139.70	20 508.00	13-3/8 399.73	—	TT100093
8-5/8 219.08	7-1/4 184.15	36 914.40	24 609.60	—	TT64054
9-5/8 244.48	8-1/4 209.55	60 1,524.00	36 914.40	TT9994	—
10-3/4 273.05	9-1/2 241.30	60 1,524.00	36 914.40	TT9940	—
13-3/8 339.73	12 304.80	72 1,828.80	36 914.40	TT11485	TT11486